

F-8488

IN THE SPECIFICATION:

Please amend the indicated paragraphs of the specification in accordance with the amendments indicated below.

Page 16: 1st full paragraph, amend as indicated below:

With the configuration described above, when the inner ring 2 rotates, the AC generator 40 generates a sine wave voltage. The sine wave voltage generated in the AC generator 40 is applied as one-phase alternating voltage (input exciting voltage) to the exciting winding 13 of the resolver 10 and also is supplied to the radio transmitter 60 as the driving voltage. On the other hand, in accordance with the rotation of the inner ring 2, the gap permeance between the outer peripheral surface of the inner ring 2 and each tooth 12a of the detection stator 12 of the resolver 10 change and signals whose amplitudes change without phase are outputted from the output windings 14, 15 of the resolver 10. The signals are inputted to the receiver unit 20a of the signal processing unit 20 through the radio transmitter ~~[[20]]~~ 60. The signal processing unit 20 recognizes the rotation state (rotation direction, rotation angle, rotation speed and the like) of the inner ring 2 based on the signals received in the receiver unit 20a.